

## ABSTRACT OF THE DISCLOSURE

The present invention, in various embodiments, is directed to techniques for providing debugging capability for program code instrumentation. In one embodiment, an instrumentor inserts an instrumentation breakpoint at the beginning of a block of original  
5 code. When this breakpoint is reached during execution of the application program that includes the block of original code, the instrumentor, from the block of original code, generates a block of instrumented code. This block of instrumented code may include debugging breakpoints that are carried from the block of original code or are inserted into the block of instrumented code during debugging. After generating the instrumented  
10 code, the instrumentor executes the instrumented code until debugging breakpoints are reached that stop the program flow, thereby allowing a programmer to perform debugging functions at these debugging breakpoints.

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